

**CALIFORNIA DEPARTMENT OF TRANSPORTATION
PREQUALIFICATION PROCEDURES AND ACCEPTANCE CRITERIA
FOR PRECAST PORTLAND CEMENT BASED REPAIR MATERIAL**



9/15/11

The Department is compiling a list of approved concrete repair materials for use in precast concrete. This program will be administered by the Quality Assessment and Management (QAM) Branch. This list is the only list recognized by The Department for use on Caltrans precast concrete products. The following procedures are required to pre-qualify a concrete repair material for inclusion in the Precast Portland Cement Based Repair Material Prequalified Products List:

I. Manufacturer/Supplier shall provide:

A. Submittal Package which includes but not limited to:

1. Company's name, address, contact information
2. Name of the repair product.
3. Certificate of Compliance stating proposed material complies with the test data shown on the material data sheet
4. Material Safety Data Sheet
5. Material Data Sheet that at a minimum contains compliance requirements for:
 - i. Minimum 7-day compressive strength of 4000 psi (ASTM C39 or ASTM C109)
 - ii. Minimum 28-day bond strength of 1500 psi (ASTM C882)
 - iii. Maximum 28-day length change of -0.15% (ASTM C157)

OR

Submit a material data sheet stating conformance with ASTM C928.

6. List of projects where product has been used successfully (bridge project, transportation project, etc.). Include reports or pictures of application, if possible.
7. Manufacturer's recommended procedures for use.
8. Limitation on use (e.g. environmental, overhead and vertical application, horizontal application, etc.)
9. Shelf life of the product
10. Storage requirements
11. When requested, two prepackaged bags (approximately 100 lbs) of portland cement based repair sample.

**CALIFORNIA DEPARTMENT OF TRANSPORTATION
PREQUALIFICATION PROCEDURES AND ACCEPTANCE CRITERIA
FOR PRECAST PORTLAND CEMENT BASED REPAIR MATERIAL**



9/15/11

- B. Send the concrete repair samples along with the required documents to Caltrans' Transportation Laboratory in Sacramento:

**Division of Materials Engineering and Testing Services – MS #5
Attention: Quality Assessment and Management Branch
5900 Folsom Boulevard
Sacramento, CA 95819**

II. Caltrans will evaluate the submittal as follows:

- A. Ensure all required documentations and samples are received.
- B. Review the technical information provided.
- C. Perform testing, at the discretion of the Department, of the concrete repair sample to verify compliance with the requirements listed above.
- D. Inform manufacturer/supplier in writing of the evaluation results.
- E. Allow one retest if the initial specimen fails, if requested by manufacturer/supplier. Retest sample will be selected by a Caltrans representative.
- F. Update the Precast Portland Cement Based Repair Material Prequalified List, as necessary.

III. Test results from a testing laboratory accredited by a nationally recognized accreditation agency shall be submitted within one year from the posted date and every two years thereafter in order for a product to remain on the list.

IV. The pre-qualification of concrete repair material will expire in 5 years.

V. To renew, Manufacturer/Supplier should submit its package with current information approximately 6 months prior to expiration.

VI. Caltrans reserves the rights to sample and to remove a product from the list at any time.